

JONATHAN SPARKS

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Education

- New York University – Interactive Telecommunications Program (ITP)** | New York, NY May 2015
Master of Professional Studies
- Northeastern University** | Boston, MA May 2005
Bachelor of Science in Music, Minor: Business Administration

Experience

- Atomic Entertainment** | New York, NY Jan 2018 – Feb 2018
_ experiential design, electrical engineering, programming – Musical Staircase
- Ernst & Young** | New York, NY Oct 2017 - Dec 2017
_ experiential design, electrical engineering, fabrication – Citibank Lego Wall
- Teachers College, Columbia University** | New York, NY Oct 2016 - Jun 2017
_ experiential design, electrical engineering, programming, fabrication - Keepsake
- Team-A-Toys** | New York, NY Jan 2016 - May 2016
_ industrial design, electrical engineering, programming, fabrication – Galaxy Stars
- MKG** | New York, NY Sep 2015
_ technical support/ troubleshooting - US Open/Chase Charging Wall and Photobooth
- Brooklyn Research** | New York, NY Aug 2015
_ fabrication and electronic assembly - US Open/Chase Charging Wall
- Yorgo Alexopoulos Multimedia** | New York, NY Jan 2015
_ fabrication and electronic assembly - Clouds
- Peter Coffin Studio** | New York, NY Jun 2014
_ LED programming, fabrication, and electronics consulting - *Living* exhibition: Alphabet Rainbow

Skills

Software

- _ design: Photoshop, Illustrator, Rhino, Eagle
- _ multimedia: After Effects, Premiere, MadMapper, Ableton, Pro Tools

Physical Computing

- _ input: analog sensors, microphones, and cameras
- _ output: sound, addressable RGB LEDs, linear actuators, dc/stepper/servo motors
- _ microcontroller/dev boards: Arduino, Raspberry Pi
- _ wireless communication: gsm, wi-fi, Zigbee, Bluetooth

Electronics

- _ analog circuitry / pcb design
- _ digital / logic integrated circuits
- _ soft circuits / wearables

Programming languages/environments

- _ Arduino, Processing, Android, Python, HTML, CSS, JavaScript, jQuery, Max/MSP/Jitter

Fabrication

- _ wood/metal/plastic fabrication & finishing
- _ experienced in full range of power and hand tools
- _ digital fabrication: laser cutting and 3D printing

Multi-Media

- _ projection mapping
- _ music composition, performance, sound design

Achievements

- Margaret Guthman Musical Instrument Competition** | Nomis - People's Choice: Best Instrument / Best Performance
- NYU Prototyping Fund awardee** | Fine Motor Tech
- Cool Hunting 25** | Honoree in design
- Paseo** | Wearables workshop and After Party Performance
- DJ Jazzy Jeff's Playlist Retreat** | Nomis Demonstration
- Featured Press:** _ online: Creator's Project, Popular Science, DesignBoom, WNYC,
_ print: Protein Journal, Inch Magazine
_ television: TODAY show - Future of Music, Discovery Channel: Daily Planet